

I CLAIM:

1. An improved double-walled grease collection tank for use in a waste grease collection system including a truck-mounted grease transport tank, lift means for handling and dumping individual on-site grease collection tanks into the truck grease transport tank, and an intermediate stage heating bath into which the double-walled grease collection tank is deposited temporarily to liquify grease in contact with the inner surfaces of the collection tank in order to facilitate dumping the contents thereof, the improvement wherein said double-walled grease collection tank comprises an inner container portion defined by an inner bottom wall and integrally joined upwardly extending inner sidewalls, an outer container portion defined by an outer bottom wall and integrally joined upwardly extending outer sidewalls, the inner container portion being received in the outer container portion with the bottom walls and sidewalls of the inner and outer container portions being disposed in opposed spaced relation to define an open space therebetween, flange means rigidly joining said inner and outer container portions at or near a top portion of their respective sidewalls, at least one fill opening formed in said sidewalls of said outer container portion adjacent its bottom wall, at least one vent opening in said double-walled collection container near its top portion,

and fill opening closure means removably mounted in each said at least one fill opening for closing and sealing the fill opening.

2. The collection tank defined in claim 1, comprising a plurality of fill openings formed in said sidewalls of said outer container portion.

3. The collection tank defined in claim 2, wherein said at least one vent opening is formed in said sidewalls of said outer container portion.

4. The collection tank defined in claim 3, wherein said at least one vent opening comprises a plurality of vent openings formed in the sidewalls of said outer container portion, and a removable vent opening closure mounted in each said vent opening.

5. The collection tank defined in claim 1, wherein said inner and outer container portions are each generally rectangular in horizontal cross section.

6. The collection tank defined in claim 1, wherein said at least one fill opening comprises a threaded opening extending through said sidewalls of said outer container portions, and wherein said

fill opening closure means comprises a threaded plug adapted to be threaded into and close each said at least one fill opening.

7. The collection tank defined in claim 5, wherein said at least one fill opening comprises a threaded opening extending through said sidewalls of said outer container portions, and wherein said fill opening closure means comprises a threaded plug adapted to be threaded into each said at least one fill opening to close same.

8. The collection tank defined in claim 1, wherein said flange means defines a stepped seat for a removable closure or lid

9. In a process for collecting waste grease in which the grease is initially collected in a waste grease collection tank at a point of use and then transferred to a transport tank on a collection truck by lifting and submersing the collection tank in a hot water bath to melt the grease adjacent the collection tank wall before emptying the grease into the transport tank, then returns the collection tank to the point of use, the improvement comprising providing a waste grease collection tank with inner and outer container portions each defined by a bottom wall and upwardly extending sidewalls and with the inner container portion

received within and having its walls spaced from the outer container portion to defined a closed air space therebetween,

providing at least one fill opening in the sidewalls of the outer container portion adjacent its bottom wall, and sealingly closing each said fill opening with a removable closure member,

removing the closure members from the fill openings when the filled collection tank is to be emptied,

lifting the filled collecting tank and submersing it into the hot water bath and permitting the hot water to flow through the fill openings to fill the air space between the inner and outer container space to the level of submersion of the collecting tank,

retaining the collecting tank in the hot water bath for a time sufficient to melt the grease adjacent the inner container portion walls,

lifting the collection tank from the hot water bath and draining the hot water from the air space through the fill openings,

emptying the collection tank into the transport tank, and

replacing the closure members in the fill openings and returning the empty collection tank to the place of use.

10. The collection tank defined by claim 9, further comprising providing at least one vent opening in the sidewalls of the outer container portions to facilitate filling of the air space between the inner and outer container portions with hot water and draining the hot water from the air space.

11. The collection tank defined in claim 10, further comprising providing each at least one vent opening with a removable vent closure, removing the closures from the vent openings prior to submersing the collection tank in the hot water bath, and replacing the closure members in the vent opening after the collection tank is emptied.